

Figure 1

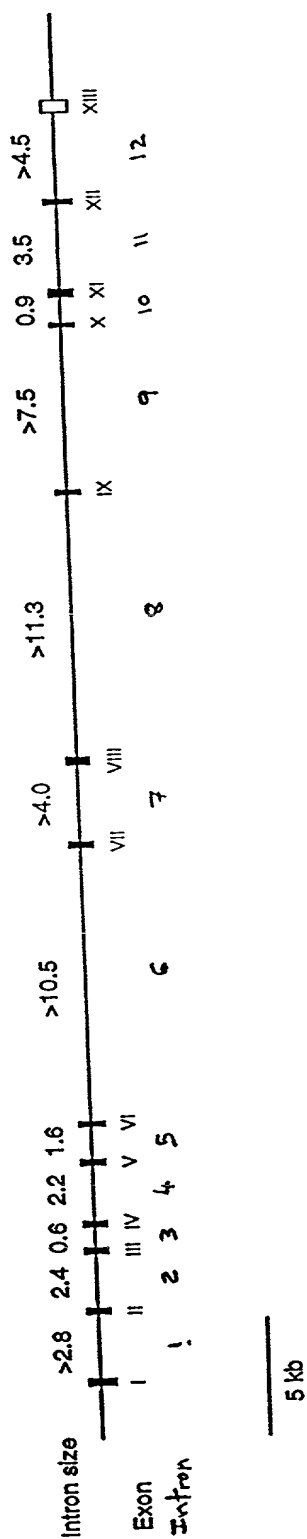


Figure 2A

promoter and exon 1

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AAGAGGGTGAGGGGCACCAGGCCCCATAGACGTTTTGGC
TCAGCGGCCACGAGGCTTCATCAGCTCCCGCCCCAAAAC
GGAAGCGAGGCCGTGGGGGCAGCGGCAGCATGGCGGGGC
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TCAGCGCCCCGCCCCGTCCCCGCCCCGACCCCGCCCCG
GCCCCGTCAGGCCCCGCCCCCTGCCGCGCGAATCCTGAAG
CCCAAGGCTGCCCCGGGGCGGTCCGGCGGCGCCGGCGAT
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TGCGTGCGCTGCCGTCCCGGATCCACCGTGCCCTCTGCGG
CCTGCGTGCCCCGAGTCCCCGCCCTGTGTGCTCTCTGTG
CCGTCCCCGTCTCTTGCCAGGCGCGGAGCCCTGCGAGCC
GCGGGTGGGCCCCAGGCGCGCAGACATGCTGCTCCGC
CAAAAGCGCGCTGGGCTGCCGGGGCGCTGGGCGTCCGGG
GCTACTGTGCGCTGTGCTGGGCGCTGTGATGATCGTGAT
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A

GTGGGTGAGGGAGACCCCAGGGGGTCCGCGCACGGACCC
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GCGGTGGGTGGGCGACCGCAGCGGAATCGGCGCCCGGGC
CTGGCGCCGCAGAACACGAGGGAGGCCAGGCGCTTCGGG
AGGGGCTGCTGCCCGCCTCCCCACCACCTCACC

Figure 2B

exon 2

AGCCTCATGTGCGAAGGGCTTTCCCACCACCTCCTATCC
CAAGCTCCCGCCGAGGAGCCCCCTTCCCTGGCCGGGCTCG
GGCAGCTGTTCCGGAGCCTTGTGGTGGGGCGTGGGGCC
CTCATCACTCTCCTCACAAGCGTACTTGTCCCTTCCC
CTGCAG

AACGTGCGCATCGACCCAGTAGCCTGTCCTTCAACATG
TGGAAGGAGATCCCTATCCCCTTCTATCTCTCCGTCTAC
TTCTTTGACGTCATGAACCCAGCGAGATCCTGAAGGGC
GAGAAGCCGCAGGTGCGGGAGCGCGGGCCCTACGTGTAC
AG

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CGCTGGGCATGGGACGGGTCTCANAGTGGACGGGATG
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GCACGCAACTCATAGTCGGGGTAAGTGCTACTCCCAAAA
AAGTTTGCCT

exon 3

CATGTCCTGCAGTGGGCAGGCAGCGGGAGGGACAGACTT
GGCGAAGGGGCCGAGCTCAGCTTTGGCTGTGGGGCCGGA
GGTGTGCACAGACGTCCAGGGCCCCCTGGTTCCCAGGCAG
GCATTGACAGGCGAGTAGAAGGGAAACGTCCCATGCAG
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CAGAGAGCAGTCCCTGAGGTGGTCCGAGCGTGGGGACTC
ACGCCTGGTGGGTGGCTTTCGGCCCTGTGCTGTCTCCAC
CACCCCCA

Figure 2C

exon 4

GGTGGTTCTGGTGTCCCAGATGCCCCACGTGGCCACTCC
AGGGGCCTCCTGCACCCCAGCATTTCCCTTCATGGGCT
CTTTGCTGTGAGGCCAGCTGGGGCCAAGGGAGGATG
GGCCAGCCACGTCCAGCCTCTGACACTAGTGTCCCTTCG
CCTTGCAG

GGTGC GCGGTGATGATGGAGAATAAGCCCATGACCCTG
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CGTGCCCTCATGAACCGCACTGTGGGTGAGATCATGTGG
GGCTACAAGGACCCCTTGTGAATCTCATCAACAAGTACT
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TTGCTGAG

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ACCAGCTTGCTTTGTAGCTGGCTGGGGATCTAGTGGCTG
TGGGTGTAAAGTACTGAGAACCTGACTCAAACCGGCTT
GAGTGAAA

exon 5

CCTCTCGGTCCCCAGACACTGGGCATTTGGCAGTGAACC
AGATGCTGGGGGCCCTGTCCTTCTGGTGGAGGGGAGGA
GGGCTCAGCCAGAATGTTTCAGACCAGGCCGGCTCAA
TGGCAGGCCTAAGCCTTACGATGCTGTTCCCTGCTGTGT
CTGTAG

CTCAACAAC TCCGACTCTGGGCTCTTCACGGTGTTCACG
GGGGTCCAGAACATCAGCAGGATCCACCTCGTGGACAAG
TGGAACGGGCTGAGCAAG

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GGGGAGGGTGGGCGGGCCATGGCTGCTCGGGAGTGGCA
GGGACCAGAGAGCTCCTTCTTCCTTTGTCGTGAAGAG
GGTGCTGGGAGGATGAACACTCTTGAAGTTGGAGGAGGG
ATTTTA

T

Figure 2D

exon 6

TCTCTGTGTGTCTACATAGCCTGCCCTCTTCCCACCGTG
CCAGTATTGGGAATTGAGTGGCCGTGCGTGCACCAGGGT
GAGTTAGGTGTGCAGCACCTGAGAGGGCTTATTAAGG
GGCCTTGGCCCTACTGAGGGGTCTAGTCTGGATGCTTCC
CCCCAG

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GAGTCCTCGCTGGAGTTCTACAGCCCGGAGGCCTGCCG

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AGCTCATGGCCAAATTCTGTGGTGTGGCTGTGCACTT
GGAAAGCATTTTGACTCATCGTGGATTTGACTCAGTAG
CCCTTGGCACCAGCTTGAATTCTCTTTGGTACACCACC
AAAAGC

exon 7

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GCTGGATCTGGGCAGCCTTTGGCAGGGCCTGGCTCTGGC
CGCCGGGTCTGGGTGTCCCCTCTCATCCTGTCTGTCC
CCTGCAG

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CTGCAGGTTCA

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TAGGTNTNGGGCACCTNANGGTTTATCTGCCCAATGCTG
TCTGCTTAATCTCTGGCCTCTGTACTCTTGATAACC
CATTAAAGCCAAAAATATGATGCCTCTGGGACGATATCTG

Figure 2E

exon 8

TGGGGCTTTTACAGAAATGGAGGAAGGGATCCTCTCT
GTCGGGTATTATGGTCATCGCCACGGGGGTGCCGTGCAG
ACCACAGCTCTGTGCAGACTTCCGGAGTGGCAGGACGTG
CCAATATACTGTCGTTGTATGATGTCCCCTCCCTGCCCT
TGTTGTAG

GTGCCCCCTTGTTTCTCTCCCATCCTCACTTCCTCAACG
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CTAACAGGAGGCACACTCCTTGTTCTGACATCCACC
CG

GTGAGCCCCTGCCATCCTCTGTGGGGGTGGGTGATTCC
TGGTTGGAGCACACCTGGCTGCCTCCTCTCTCCCCAG
GCAGAGAGCTGCTGTGGGCTGGGGTGGTGGGAAGCCTGG
CTTCTAGAATCTCGAGCCACCAAAGTTCCTTACT

exon 9

CCCCAGCCTGTGGCTTGTTTTAGGTAAGATACAAGCAAG
CTCCACTGGGCAGTTAGCTGGGACGCCACCCTCTTGAC
TGGGACCAGGGAAGAAGGTTGACTGTGTCCCTGGA
GCTTGGGGGTGGCCAGTCTCCTCACTGTGTTTGTGCCG
CAG

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CTGAGCCTCTACATGAAATCTGTGCGAGGCATTGG

GTGAGTGGGGACTGGGAACTGGGGCTGCATTGCTCATTG
AGAGATTANGTGCTCAGTGCTCCAGTGTTCCCAGAC
TCCCCTGACATACCCAGGAAACAGGGCATGGGGAAGGG
AGAGGGTCCATTGGGGGTGGAATCCAGTCCCTGCTGAT
CTTCTC

Figure 2F

exon 10

ATGGCTCCTAAAGTGTTTCAGCTCATTGTTTATATTTGG
TGGTGAGGGTTTAGTGTTGTGCAAAATTATACTAAACC
TGTTTAGATGTTGTATTCAAGCAGAATTAGATCAAGTTT
GGGTGTAAGACTTTGTTCCAACACCTATGTCCTTGCTTAT
TTCCAG

ACAAACTGGGAAGATTGAGCCTGTGGTCCTGCCGCTGCT
CTGGTTTGCAGAG

GTAAGGGTGCGTTGGGCACAGCGTCGGGGGCTTTTGTTA
ATAGCCAATGTGGGCATTTGAGGCAGGAGGCGGGGGG
AGCACCTTGTAGAAAGGGAGAGGGCTGAGCCAGGGTAAC
CGGACTGTTACATGGACCAGCGTATCATACACTTCACCC
TGTC

exon 11

CCTGGAGGGAGGAGGTCCCTGGCAGGCTCCAACACATGC
TTTAGCCGGGAAGCTTGAGGTGGGGAAAAGCTGAGGCGG
GCACAGAGGAAGGTGTTGGGTGGCATCTGCGCTGTAG
CCCGCAGCGTGGCGCCCCAGCTCATGTGTTTGTCATTCT
GTCTCCTCAG

AGCGGGGCCATGGAGGGGGAGACTCTTCACACATTCTAC
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CAGTACGTCCTCCTGGCGCTGGGCTGCGTCCTGCTGCTG
GTCCCTGTCATCTGCCAAATCCGGAGCCAA

GTAGGTGCTGGCCAGAGGGCAGCCCGGGCTGACAGCCAT
TCGCTTGCTGCTGGGGGAAAGGGGCCTCAGATCGGACC
CTCTGGCCAACCGCAGCCTGGAGCCACCTCCAGCAG
CAGTCCTGCGTCTCTGCCGAGTGGGAGCGGTCACTGCT
GGGGG

Figure 2G

exon 12

CCCCACATCTCAGCCACCTGCAATCGTTGAGGGTTGTTG
GACTCTAAACTTATGTGCCTTTCCTGTTTCCTCTTTGCC
TTTTGCAAATTGAAGAACCGTGTA AAAACCATTTTTAT
GTGGCTTCAACGTCAACTATAAATTAGCTTGGTTATCTT
CTAG

GAGAAATGCTATTTATTTTGGAGTAGTAGTAAAAAGGGC
TCAAAGGATAAGGAGGCCATTCAGGCCTATTCTGAATCC
CTGATGACATCAGCTCCCAAGGGCTCTGTGCTGCAGGAA
GCAAAACTGTAG

GTGGGTACCAGGTAATGCCGTGCGCCTCCCCGCCCCCTC
CCATATCAAGTAGAATGCTGGCGGCTTAAACATTTGGG
GTCCTGCTCATTCCTTCAGCCTCAACTTCACCTGGAG
TGTCTACAGACTGAAGATGCATATTTGTGTATTTGCTT
TTGGAGAAA

Figure 3A

ACCGTGCTCTGCGGCTGCGTGCCCGAGTCCCGGCTGTGTCGTCTGTGTCGCGTCCCGTCTCTGCGAGGCGG 79

H G C S A K A R W A 10
GAGCCCTGCGAGCCGCGGGTGGGCCCCAGGCGGCGAGAC ATG GGC TGC TCC GCC AAA GCG CGC TGG GCT 148

A G A L G V A G L L C A V L G A V M I V 30
GCC GGG GCG CTG GGC GTC GCG GGG CTA CTG TGC GCT GTG CTG GGC GCT GTC ATG ATC GTG 208

exon 1 → exon 2
M V P S L I K Q Q V L K N V R I D P S S 50
ATG GTG CCG TCG CTC ATC AAG CAG CAG GTC CTT AAG AAC GTG CGC ATC GAC CCC AGT AGC 268

L S F N M W K E I P I P F Y L S V Y F F 70
CTG TCC TTC AAC ATG TGG AAG GAG ATC CCT ATC CCC TTC TAT CTC TCC GTC TAC TTC TTT 328

D V M N P S E I L K G E K P Q V R E R G 90
GAC GTC ATG AAC CCC AGC GAG ATC CTG AAG GCG GAG AAG CCG CAG GTG CGG GAG CGC GGG 388

exon 3
P Y V Y R E F R H K S N I T F N N N D T 110
CCC TAC GTG TAC AGG GAG TTC AGG CAC AAA AGC AAC ATC ACC TTC AAC AAC AAC GAC ACC 448

V S F L E Y R T F Q F Q P S K S H G S E 130
GTG TCC TTC CTC GAG TAC CGC ACC TTC CAG TTC CAG CCC TCC AAG TCC CAC GGC TCG GAG 503

exon 4
S D Y I V M P N I L V L G A A V H M E N 150
AGC GAC TAC ATC GTC ATG CCC AAC ATC CTG GTC TTG GGT GCG GCG GTG ATG ATG GAG AAT 563

K P M T L K L I M T L A F T T L G E R A 170
AAG CCC ATG ACC CTG AAG CTC ATC ATG ACC TTG GCA TTC ACC ACC CTC GGC GAA CGT GCC 623

F M N R T V G E I M W G Y K D P L V N L 190
TTC ATG AAC CGC ACT GTG GGT GAG ATC ATG TGG GGC TAC AAG GAC CCC CTT GTG AAT CTC 683

exon 5
I N K Y F P G M F P F K D K F G L F A E 210
ATC AAC AAG TAC TTT CCA GGC ATG TTC CCC TTC AAG GAC AAG TTC GGA TTA TTT GCT GAG 743

L N N S D S G L F T V F T G V Q N I S R 230
CTC AAC AAC TCC GAC TCT GGG CTC TTC ACG GTG TTC ACG GGG GTC CAG AAC ATC AGC AGG 803

exon 6
I H L V D K W N G L S K V D F W H S D Q 250
ATC CAC CTC GTG GAC AAG TGG AAC GGG CTG AGC AAG GTT GAC TTC TGG CAT TCC GAT CAG 863

C N M I N G T S G Q M W P P F M T P E S 270
TGC AAC ATG ATC AAT GGA ACT TCT GGG CAA ATG TGG CCG CCC TTC ATG ACT CCT GAG TCC 923

exon 7
S L E F Y S P E A C R S M K L M Y K E S 290
TCG CTG GAG TTC TAC AGC CCG GAG GCC TGC CGA TCC ATG AAG CTA ATG TAC AAG GAG TCA 983

G V F E G I P T Y R F V A P K T L F A N 310
GGG GTG TTT GAA GGC ATC CCC ACC TAT CGC TTC GTG GCT CCC AAA ACC CTG TTT GCC AAC 1043

G S I Y P P N E G F C P C L E S G I Q N 330
GGG TCC ATC TAC CCA CCC AAC GAA GGC TTC TGC CCG TGC CTG GAG TCT GGA ATT CAG AAC 1103

exon 8
V S T C R F S A P L F L S H P H F L N A 350
GTC AGC ACC TGC AGG TTC AGT GCC CCC TTG TTT CTC TCC CAT CCT CAC TTC CTC AAC GCG 1163

D P V L A E A V T G L H P N Q E A H S L 370
GAC CCG GTT CTG GCA GAA GCG GTG ACT GGC CTG CAC CCT AAC CAG GAG GCA CAC TCC TTG 1223

0070152-000004

Parameter	Value	Unit	Parameter	Value	Unit
Temperature	25	°C	Pressure	101.3	kPa
Humidity	50	%	Wind speed	0.5	m/s
Light intensity	100	μmol/m ² /s	CO ₂ concentration	400	ppm
Root length	10	cm	Stem length	20	cm
Leaf area	15	cm ²	Chlorophyll content	25	mg/g
Stomatal conductance	0.1	mol/m ² /s	Transpiration rate	0.01	mol/m ² /s
Net photosynthesis	0.02	mol/m ² /s	Respiration rate	0.005	mol/m ² /s
Water potential	-0.5	MPa	Relative water content	85	%
Protein content	1.5	mg/g	Enzyme activity	0.1	U/mg
Antioxidant activity	0.5	U/mg	Gene expression	1.0	fold
Cell wall thickness	0.5	μm	Membrane integrity	0.8	U/mg
Chlorophyll fluorescence	0.8	Fv/Fm	Electron transport rate	0.05	mol/m ² /s
Photosynthetic rate	0.01	mol/m ² /s	Stomatal conductance	0.05	mol/m ² /s
Transpiration rate	0.005	mol/m ² /s	Water potential	-0.5	MPa
Relative water content	85	%	Protein content	1.5	mg/g
Enzyme activity	0.1	U/mg	Antioxidant activity	0.5	U/mg
Gene expression	1.0	fold	Cell wall thickness	0.5	μm
Membrane integrity	0.8	U/mg	Chlorophyll fluorescence	0.8	Fv/Fm
Electron transport rate	0.05	mol/m ² /s	Photosynthetic rate	0.01	mol/m ² /s
Stomatal conductance	0.05	mol/m ² /s	Transpiration rate	0.005	mol/m ² /s
Water potential	-0.5	MPa	Relative water content	85	%
Protein content	1.5	mg/g	Enzyme activity	0.1	U/mg
Antioxidant activity	0.5	U/mg	Gene expression	1.0	fold
Cell wall thickness	0.5	μm	Membrane integrity	0.8	U/mg
Chlorophyll fluorescence	0.8	Fv/Fm	Electron transport rate	0.05	mol/m ² /s
Photosynthetic rate	0.01	mol/m ² /s	Stomatal conductance	0.05	mol/m ² /s
Transpiration rate	0.005	mol/m ² /s	Water potential	-0.5	MPa
Relative water content	85	%	Protein content	1.5	mg/g
Enzyme activity	0.1	U/mg	Antioxidant activity	0.5	U/mg
Gene expression	1.0	fold	Cell wall thickness	0.5	μm
Membrane integrity	0.8	U/mg	Chlorophyll fluorescence	0.8	Fv/Fm
Electron transport rate	0.05	mol/m ² /s	Photosynthetic rate	0.01	mol/m ² /s
Stomatal conductance	0.05	mol/m ² /s	Transpiration rate	0.005	mol/m ² /s
Water potential	-0.5	MPa	Relative water content	85	%
Protein content	1.5	mg/g	Enzyme activity	0.1	U/mg
Antioxidant activity	0.5	U/mg	Gene expression	1.0	fold
Cell wall thickness	0.5	μm	Membrane integrity	0.8	U/mg
Chlorophyll fluorescence	0.8	Fv/Fm	Electron transport rate	0.05	mol/m ² /s
Photosynthetic rate	0.01	mol/m ² /s	Stomatal conductance	0.05	mol/m ² /s
Transpiration rate	0.005	mol/m ² /s	Water potential	-0.5	MPa
Relative water content	85	%	Protein content	1.5	mg/g
Enzyme activity	0.1	U/mg	Antioxidant activity	0.5	U/mg
Gene expression	1.0	fold	Cell wall thickness	0.5	μm
Membrane integrity	0.8	U/mg	Chlorophyll fluorescence	0.8	Fv/Fm
Electron transport rate	0.05	mol/m ² /s	Photosynthetic rate	0.01	mol/m ² /s
Stomatal conductance	0.05	mol/m ² /s	Transpiration rate	0.005	mol/m ² /s
Water potential	-0.5	MPa	Relative water content	85	%
Protein content	1.5	mg/g	Enzyme activity	0.1	U/mg
Antioxidant activity	0.5	U/mg	Gene expression	1.0	fold
Cell wall thickness	0.5	μm	Membrane integrity	0.8	U/mg
Chlorophyll fluorescence	0.8	Fv/Fm	Electron transport rate	0.05	mol/m ² /s
Photosynthetic rate	0.01	mol/m ² /s	Stomatal conductance	0.05	mol/m ² /s
Transpiration rate	0.005	mol/m ² /s	Water potential	-0.5	MPa
Relative water content	85	%	Protein content	1.5	mg/g
Enzyme activity	0.1	U/mg	Antioxidant activity	0.5	U/mg
Gene expression	1.0	fold	Cell wall thickness	0.5	μm
Membrane integrity	0.8	U/mg	Chlorophyll fluorescence	0.8	Fv/Fm
Electron transport rate	0.05	mol/m ² /s	Photosynthetic rate	0.01	mol/m ² /s
Stomatal conductance	0.05	mol/m ² /s	Transpiration rate	0.005	mol/m ² /s
Water potential	-0.5	MPa	Relative water content	85	%
Protein content	1.5	mg/g	Enzyme activity	0.1	U/mg
Antioxidant activity	0.5	U/mg	Gene expression	1.0	fold

F L D I H P V T G I P M N C S V K L Q L 390
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 AGC CTC TAC ATG AAA TCT GTC GCA GGC ATT GGA CAA ACT GGG AAG ATT GAG OCT GTG GTC 1348
 L P L L W F A E S G A M E G E T L H T F 430
 CTG CCG CTG CTC TGG TTT GCA GAG AGC GGG GCC ATG GAG GGG GAG ACT CTT CAC ACA TTC 1408
 Y T Q L V L M P K V M H Y A Q Y V L L A 450
 TAC ACT CAG CTG GTG TTG ATG CCC AAG GTG ATG CAC TAT GCC CAG TAC GTC CTC CTG GCG 1468
 L G C V L L L V P V I C Q I R S Q E K C 470
 CTG GGC TGC GTC CTG CTG CTG GTC CCT GTC ATC TGC CAA ATC CGG AGC CAA GAG AAA TGC 1528
 Y L F W S S S K K G S K D K E A I Q A Y 490
 TAT TTA TTT TGG AGT AGT AGT AAA AAG GGC TCA AAG GAT AAG GAG GCC ATT CAG GCC TAT 1588
 S E S L M T S A P K G S V L Q E A K L * 510
 TCT GAA TCC CTG ATG ACA TCA GCT CCC AAG GGC TCT GTG CTG CAG GAA GCA AAA CTG TAG 1648
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 2530

Figure 4

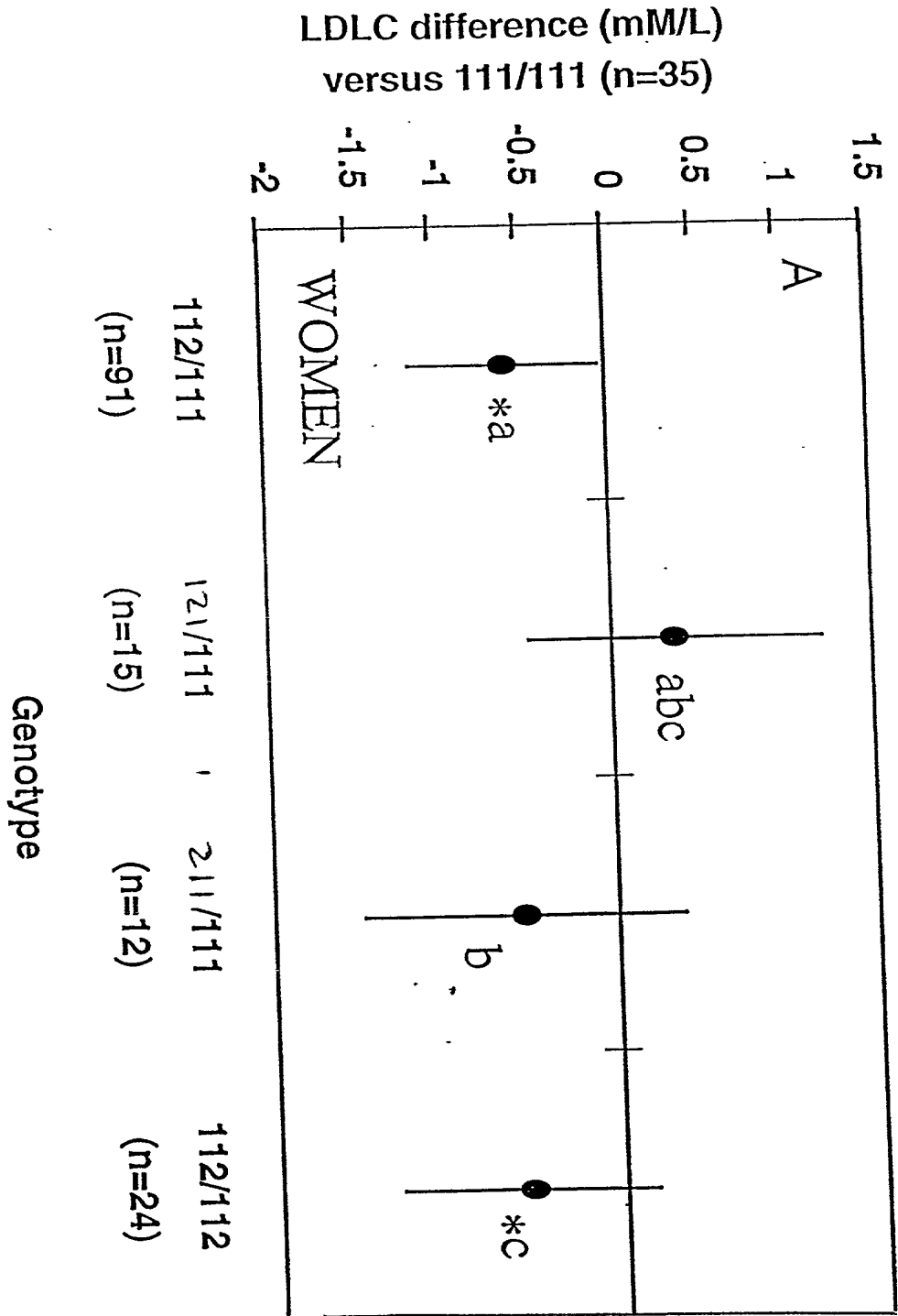
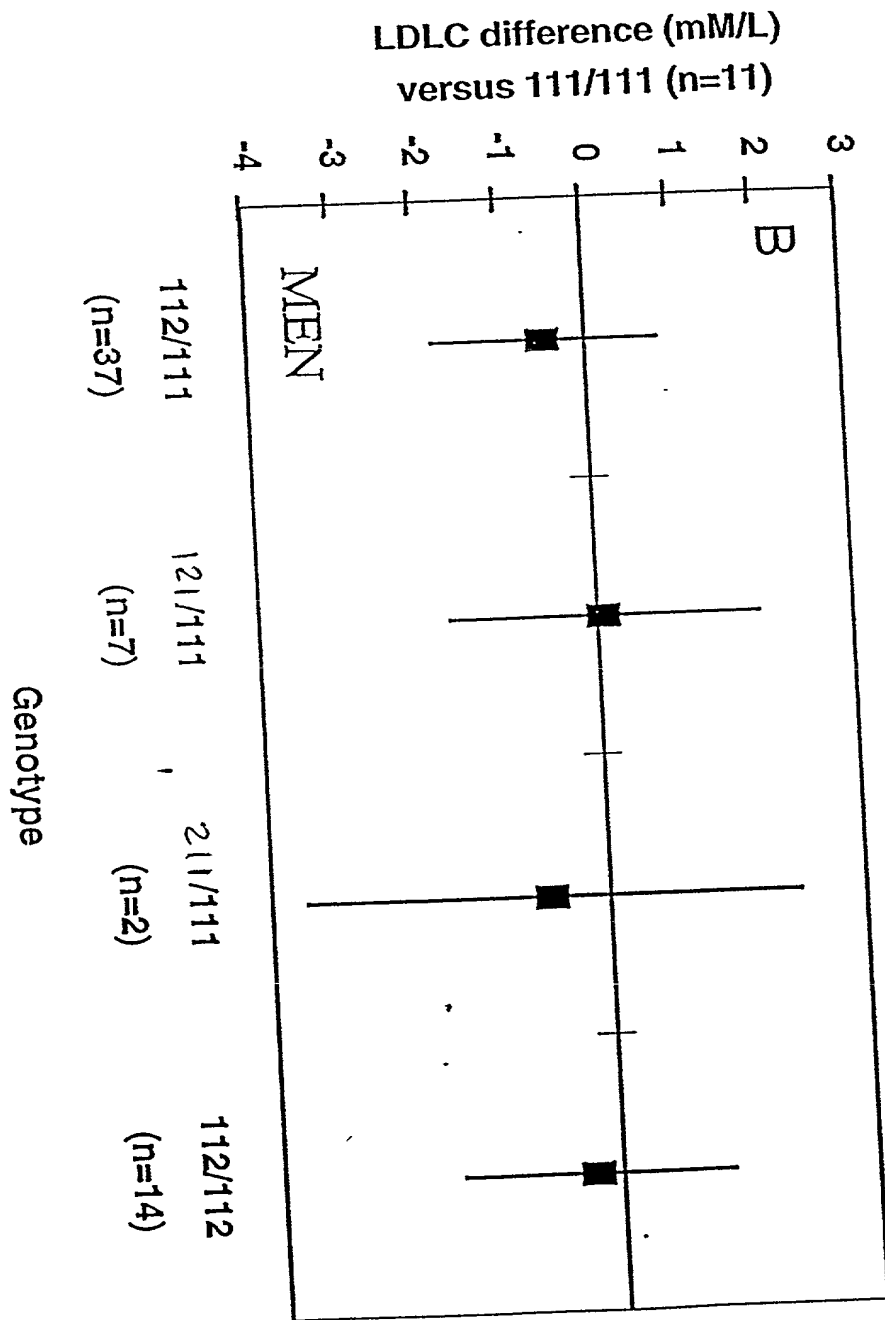


Figure 5



**HDLC difference (mM/L)
versus 111/111 (n=35)**



**HDLC difference (mM/L)
versus 111/111 (n=11)**

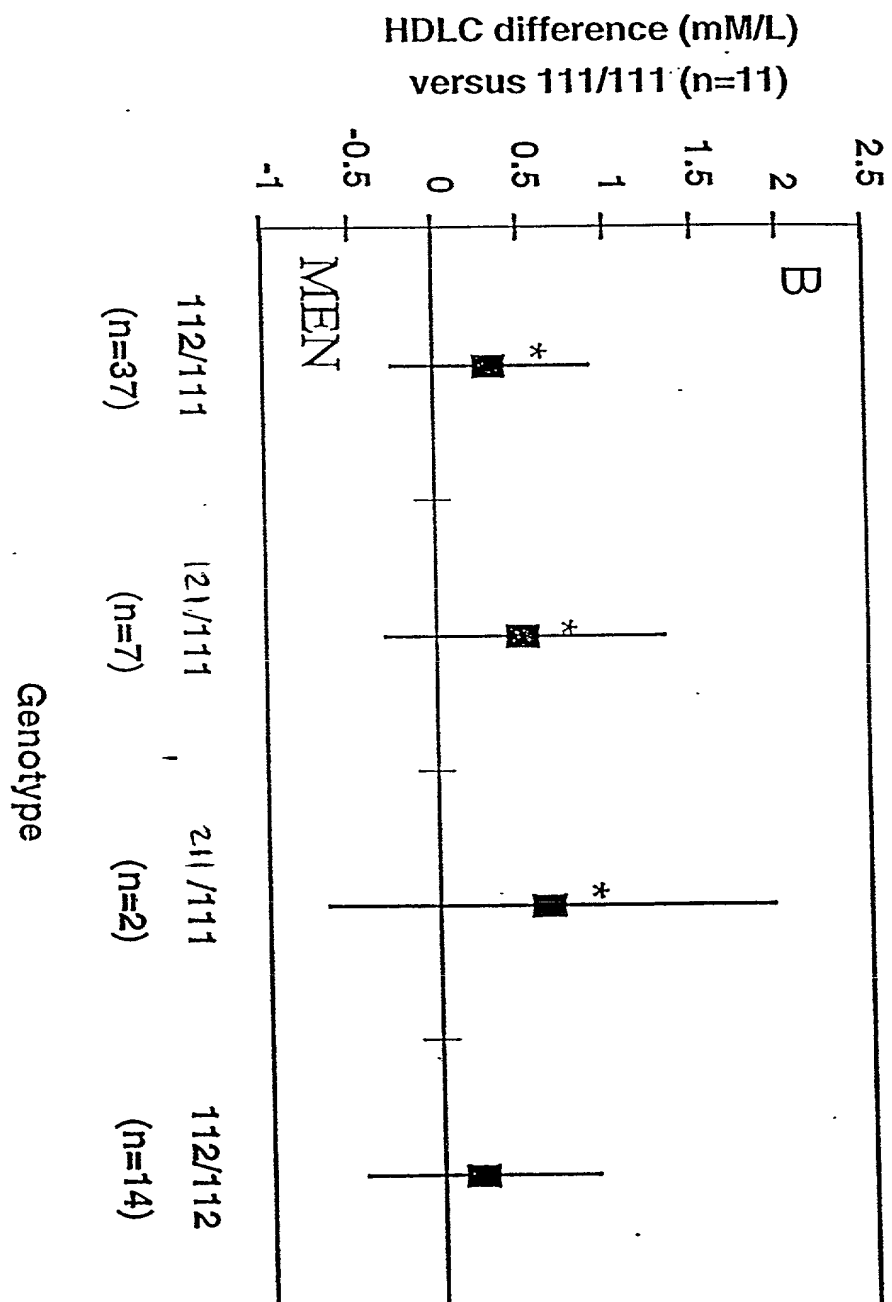


Figure 8

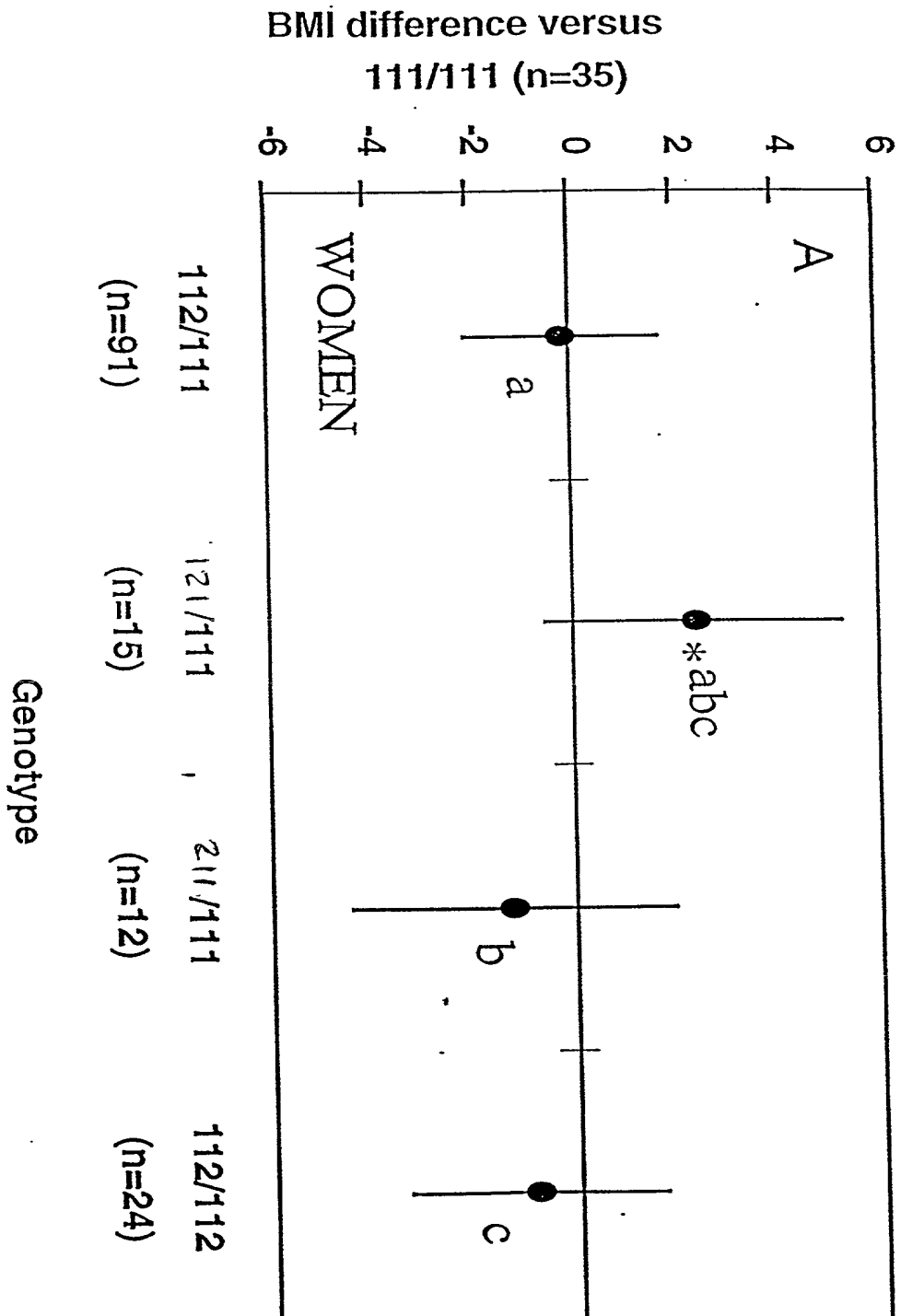


Figure 9

